

## PARADISE DISTRIBUTORS NORTHWEST

Water and Wastewater Specialists

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# Welcome to PNW Inc.

#### PIW

- Aeration
- Bio-augmentation
- Filter media
- Ozone
- Services

#### Latest Installation

- Reardan, WA
- ☑ Willamina, OR

#### Poll

# What type of aeration do you have?

- O Mechanical surface aerators
- C Static aeration
- C Bottom laid aeration
- C Mixte: mechanical + bottom laid
- O Other

#### 

Results | Files

#### CITY OF LAURELVILLE

During 2000, the City of Laurelville determined that improvements were neces improve facility performance to benefit the environment and position the City f federal regulations and also the more aggressive standards of treatment that thereafter.

Laurelville also determined that if it could improve performance to the actual capabilities of their land area and infrastructure, the community may have an opportunity to treat municipal waste from an adjoining community and thus also lower overall per capita costs for Laurelville residents.

#### RATIONALE FOR AMTS UPGRADE:

Laurelville was impressed with the performance history of ADS and the predicted capability of AMTS to provide solid year round performance, even w to substantially reduce the high cost associated with periodic sludge disposal. quality treatment of mechanical plants in lagoons at significant savings in capi AMTS process combines ADS's proprietary diffusion aeration products, enging and bioaugmentation ("Bacta-Pur®") technologies to form a very stable, and system for natural microbial treatment of municipal wastewater. Operational or Because of the efficiency of AMTS, sludge handling is typically not necessary

Laurelville considered a number of different proposals and selected the AMTS the most impressive performance at low capital and O & M costs, all supporte guarantee.

#### **DESCRIPTION OF AMTS UPGRADE:**

The basic goal of the AMTS for Laurelville was to convert and upgrade the existing facilities to a high performance lagoon system



so that discharge requirements were consistently achieved with a comfortable margin. This included replacement of the diffusion aeration system existing 10 HP blowers were found acceptable and were retained to operate w standby in normal operations.

Above ground header pipe and high efficiency diffusion aeration tubing were laprimary and second lagoons at a maximum of 10 foot centers. Baffles were in lagoons. The primary lagoons were also equipped with Bacta-Pur® Bactivator metered and activated quantity of XLG, a Bacta-Pur® sludge digesting produc

### AMTS COSTS---CAPITAL, OPERATING AND MAINTENANCE:

Capital costs incurred by Laurelville for the AMTS upgrade were approximatel installation related services for ADS and local site related cost of \$60,000, for \$180,000. This corresponds with an average annual per capita cost over a 10 year or 7 cents/person/day.

Operating and Maintenance costs for AMTS have compared favorably with es that the upgrade did not increase the brake horsepower and system CFM requessentially remained unchanged at Laurelville since the system commenced in Average electrical costs per capita are approximately \$4.06/per person/year of Chlorination costs have been avoided entirely since completion of the upgrade coliform levels have been consistently in the single digits without chlorination appermit levels of over 200.

#### **REFERENCES:**

Mr. Ernest Hill Superintendent Laurelville WWTP 16111 Creamery Hill Road P. O. Box 217 Laurelville, Ohio 43135

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